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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 04983.0220.00US00/38-10(15494)A

First Named Inventor or Application Identifier MCININCH

Title Computational Nucleic Acid Coding and Feature Analysis

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ *Fee Transmittal Form (Form PTO-1082)
(Submit an original and a duplicate for fee processing)

2. ☒ Specification [Total Pages 84]
(preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description

☒ Drawing(s) (35 USC 113) [Total Sheets 11]

Oath or Declaration [Total Pages 2]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]

i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named
in the prior application, see 37 CFR 1.63(d)(2) and
1.33(b).

5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy
of the oath or declaration is supplied under Box 4b, is considered
as being part of the disclosure of the accompanying application
and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☒ Computer Readable Copy
- b. ☒ Paper Copy (identical to computer copy)
- c. ☒ Statement verifying identity of above
copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))

9. ☐ 37 CFR 3.73(b) Statement ☒ Power of
(when there is an assignee) Attorney

10. ☐ English Translation Document (if applicable)

11. ☒ Information Disclosure ☒ Copies of IDS
Statement (IDS)/PTO-1449 Citations

12. ☐ Preliminary Amendment

13. ☒ Return Receipt Postcard (MPEP 503) (Two)
(should be specifically itemized)

14. ☐ *Small Entity ☐ Statement filed in
Statement(s) prior application,
Status still proper
and desired

15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. ☐ Other:

*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF
ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

Prior Application Information: Examiner:

of prior application No: /

Group/Art Unit:

18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label 22930

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

NAME	David R. Marsh				
	HOWREY SIMON ARNOLD & WHITE, LLP				
	Box No. 34				
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Name (Print/Type)	David R. Marsh/Andrew S. Brenc		Registration No. (Attorney/Agent)	41,408/45,534	
Signature			Date	October 30, 2000	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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 09/698213
 10/30/00

ASSISTANT COMMISSIONER FOR PATENTS
 Washington, D.C. 20231

Attorney Docket No. 04983.0220.00US00/38-10(15494)A

Sir:

Transmitted herewith for filing is the patent application of
 Inventors: James D. MCININCH
 For: **Computational Nucleic Acid Coding and Feature Analysis**

Enclosed are:

- ☒ 11 sheets of informal drawings.
- An assignment of the invention to _____ application.
- A certified copy of a _____
- An associate power of attorney.
- ☒ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27.
- Executed Combined Declaration and Power of Attorney for Patent Application.

The filing fee has been calculated as shown below:

	(Col. 1)		(Col. 2)
FOR	NO. FILED		NO. EXTRA
BASIC FEE			
TOTAL CLAIMS	44	-20 =	24
INDEP. CLAIMS	11	-3 =	8
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED			


*If the difference in Col. 1 is less than zero, enter "0" in Col. 2

SMALL ENTITY	
RATE	FEE
	\$ 355.00
x 9 =	
x 40 =	
+ 135 =	
TOTAL	

OTHER THAN A SMALL ENTITY	
RATE	FEE
	\$ 710.00
x 18 =	432.00
x 80 =	640.00
+ 270 =	
TOTAL	\$1,782.00

- Please charge my Deposit Account No. 08-3038 in the amount of \$ _____. A duplicate copy of this sheet is attached.
- Please charge my American Express credit card in the amount of \$ _____. A form PTO-2038, Credit Card Payment Form is attached in duplicate.
- ☒ A check in the amount of \$1,782.00 to cover the basic filing fee and excess claims fee is enclosed.
- ☒ The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 08-3038 referencing docket number 04983.0220.00US00/38-10(15494)A. A duplicate copy of this sheet is attached.
- ☒ Any additional filing fees required under 37 CFR 1.16.
- ☒ Any patent application processing fees under 37 CFR 1.17.
- The U.S. Patent and Trademark Office is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 08-3038 referencing docket number _____. A duplicate copy of this sheet is enclosed.
- Any patent application processing fees under 37 CFR 1.17
- The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).
- Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Date October 30, 2000


 David R. Marsh (Reg. No. 41,408)
 Andrew S. Brenc (Reg. No. 45,534)



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October 30, 2000

10/30/00
JC685 U.S. PRO

Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Patent Application
Appl. No. To be assigned; Filed: Herewith
For: **Computational Nucleic Acid Coding and Feature Analysis**
Inventor: James D. MCININCH
Our Ref: 04983.0220.00US00/38-10(15494)A

10/30/00
JC931 U.S. PRO
09/698213

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. Utility Patent Application Transmittal Form PTO/SB/05;
2. U.S. Utility Patent Application entitled:
Computational Nucleic Acid Coding and Feature Analysis

and naming as inventors: James D. MCININCH

the application consisting of:

- a. A specification containing:
 - (i) 64 pages of description prior to the claims;
 - (ii) 12 pages of claims (44 claims);
 - (iii) a one (1) page abstract;
- b. 11 sheets of drawings: (Figures 1-7, 8a-8d, 9a, 9b, and 10a-10c);
- c. Sequence listing comprising 7 pages;

Assistant Commissioner for Patents
October 30, 2000
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3. A computer readable copy of the sequence listing;
4. Statement Regarding Sequence Submission;
5. An original executed Combined Declaration and Power of Attorney;
6. Form PTO-1082 (in duplicate);
7. Information Disclosure Statement;
8. Form PTO-1449 (3 pages) with 7 attached documents;
9. Two (2) return postcards; and
10. Our check No. 339008 for \$1,782.00 to cover:

\$ 710.00 Filing fee for patent application; and
\$ 1,072.00 Fee for excess claims.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other prepaid postcard be stamped with the filing date and unofficial application number and returned as soon as possible.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number 04983.0220.00US00/38-10(15494)A. A duplicate copy of this letter is enclosed.

Respectfully submitted,

Andrew S. Brenne

David R. Marsh (Reg. No. 41,408)
Andrew S. Brenne (Reg. No. 45,534)

Enclosures